

Search History for 10/016,403

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'REGISTRY' ENTERED AT 06:41:47 ON 14 MAR 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/sqsp

L1 115 YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/SQSP

=> s YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/sqep

64 YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/SQEP

31683 SQL=44

L2 64 YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/SQEP

(YADAIFTNSYRKVLGQLSARKLLQDIMSRRQGESNQERGARARL/SQEP AND SQL=44)

=> s YADAIFTNSYRKVLG[QH]LSARKLL[QH]DIMSRR[QH][QH]GESN[QH]ERGARARL/sqsp

L3 116 YADAIFTNSYRKVLG[QH]LSARKLL[QH]DIMSRR[QH][QH]GESN[QH]ERGARARL/SQSP

=> s YADAIFTNSYRKVLG[QH]LSARKLL[QH]DIMSRR[QH][QH]GESN[QH]ERGARARL/sqep

GAPS, WILDCARDS, AND BRACKETS ARE INVALID FOR "EXACT" SEQUENCE FIELD CODES.

=> file .djs

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

67.75

68.17

FILE 'MEDLINE' ENTERED AT 06:44:05 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:44:05 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:44:05 ON 14 MAR 2007

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FILE 'BIOSIS' ENTERED AT 06:44:05 ON 14 MAR 2007

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Search History for 10/016,403

(FILE 'HOME' ENTERED AT 06:40:52 ON 14 MAR 2007)

FILE 'REGISTRY' ENTERED AT 06:41:47 ON 14 MAR 2007

L1 115 S YADAIFTNSYRKVLGQLSARKLLQDIMSROQGESNQERGARARL/SQSP
L2 64 S YADAIFTNSYRKVLGQLSARKLLQDIMSROQGESNQERGARARL/SQEP
L3 116 S YADAIFTNSYRKVLG [QH] LSARKLL [QH] DIMSR [QH] [QH] GESN [QH] ERGARARL/S

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
06:44:05 ON 14 MAR 2007

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS, USPATFULL'
ENTERED AT 06:44:16 ON 14 MAR 2007

L4 5544 S L1 OR L2
L5 5544 S L3
L6 0 S L5 NOT L4

FILE 'REGISTRY' ENTERED AT 06:45:26 ON 14 MAR 2007

L7 1 S L3 NOT (L1 OR L2)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
06:46:19 ON 14 MAR 2007

L8 1 S L7

Search History for 10/016,403

FILE 'EMBASE' ENTERED AT 06:44:05 ON 14 MAR 2007
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FILE 'WPIDS' ENTERED AT 06:44:05 ON 14 MAR 2007
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=> file .djs uspatfull
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.15	76.32

FILE 'MEDLINE' ENTERED AT 06:44:16 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:44:16 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:44:16 ON 14 MAR 2007
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FILE 'WPIDS' ENTERED AT 06:44:16 ON 14 MAR 2007
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FILE 'USPATFULL' ENTERED AT 06:44:16 ON 14 MAR 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l1 or l2
'SQSP' IS NOT A VALID FIELD CODE
'SQEP' IS NOT A VALID FIELD CODE
L4 5544 L1 OR L2

=> s l3
'SQSP' IS NOT A VALID FIELD CODE
L5 5544 L3

=> s l5 not l4
L6 0 L5 NOT L4

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.12	115.44

FILE 'REGISTRY' ENTERED AT 06:45:26 ON 14 MAR 2007
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s l3 not (l1 or l2)
L7 1 L3 NOT (L1 OR L2)

=> d l7

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 186206-31-5 REGISTRY
ED Entered STN: 18 Feb 1997
CN L-Leucinamide, L-tyrosyl-L-alanyl-L- α -aspartyl-L-alanyl-L-isoleucyl-
L-phenylalanyl-L-threonyl-L-asparaginyL-L-seryl-L-tyrosyl-L-arginyl-L-
lysyl-L-valyl-L-leucylglycyl-L-histidyl-L-leucyl-L-seryl-L-alanyl-L-
arginyl-L-lysyl-L-leucyl-L-leucyl-L-histidyl-L- α -aspartyl-L-
isoleucyl-L-methionyl-L-seryl-L-arginyl-L-histidyl-L-histidylglycyl-L-
 α -glutamyl-L-seryl-L-asparaginyL-L-histidyl-L- α -glutamyl-L-
arginylglycyl-L-alanyl-L-arginyl-L-alanyl-L-arginyl- (9CI) (CA INDEX
NAME)
FS PROTEIN SEQUENCE
MF C220 H353 N77 O61 S
CI MAN
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file .djs		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.40	117.84

FILE 'MEDLINE' ENTERED AT 06:46:19 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:46:19 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:46:19 ON 14 MAR 2007
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Search History for 10/016,403

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=> s 17

'SQSP' IS NOT A VALID FIELD CODE

'SQEP' IS NOT A VALID FIELD CODE

L8 1 L7

=> d ibib abs 18

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:116494 CAPLUS

DOCUMENT NUMBER: 126:113153

TITLE: Modification of polypeptide drugs to increase electrotransport flux

INVENTOR(S): Holladay, Leslie A.

PATENT ASSIGNEE(S): Alza Corporation, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639422	A2	19961212	WO 1996-US9377	19960606
WO 9639422	A3	19970306		
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN			
NL 1003283	A1	19961209	NL 1996-1003283	19960606
NL 1003283	C2	19970502		
CA 2220146	A1	19961212	CA 1996-2220146	19960606
FR 2735132	A1	19961213	FR 1996-7002	19960606
FR 2735132	B1	19980424		
AU 9665903	A	19961224	AU 1996-65903	19960606
BE 1009704	A3	19970701	BE 1996-517	19960606
GB 2317179	A	19980318	GB 1997-25981	19960606
GB 2317179	B	19990728		
DE 19681439	T0	19980723	DE 1996-19681439	19960606
BR 9609149	A	19990223	BR 1996-9149	19960606
JP 11507341	T	19990629	JP 1997-501710	19960606
US 2002107505	A1	20020808	US 2001-16403	20011210
PRIORITY APPLN. INFO.:			US 1995-466610	A 19950606
			WO 1996-US9377	W 19960606

AB Methods of modifying polypeptide drugs in order to enhance their transdermal electrotransport flux are provided. The polypeptide is modified by substituting a histidine residue (His) for one or more glutamine (Gln), threonine (Thr) and/or asparagine (Asn) residue(s). The His for Gln substitution is particularly preferred from the standpoint of retaining biol. activity of the parent polypeptide. Compns. containing the modified polypeptide, which are useful for transdermal electrotransport delivery, are also provided. Analogs, e.g. a PTH analog, showed improved electrotransport plasma levels. A schematic drawing of an electrotransport drug delivery device is included.